

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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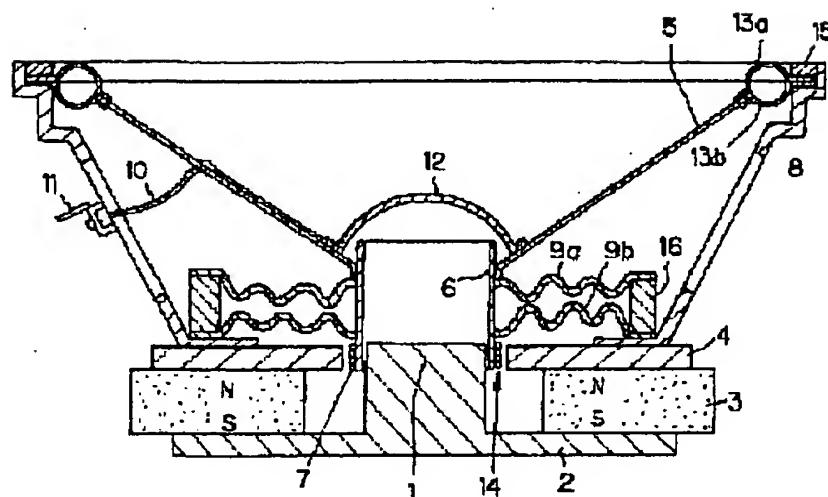
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TITLE : SPEAKER EQUIPMENT



ABSTRACT : PROBLEM TO BE SOLVED: To improve the sound quality, especially a distortion characteristic at a low frequency band by forming displacement parts of a couple of dampers supporting a coil bobbin and a diaphragm to a frame and a couple of edge members to be symmetrical in a moving direction of the coil bobbin and the diaphragm so as to improve the linearity of the support system thereby reducing asymmetrical distortion.

SOLUTION: A coil bobbin 6 is supported to a frame 8 of a magnetic circuit via a couple of dampers 9a, 9b each having a flexible displacement part. A diaphragm 5 is supported at its midposition by the coil bobbin 6 and its outer circumferential parts are supported by the frame 8 via a couple of flexible edge members 13a, 13b. At least the displacement parts of the dampers 9a, 9b are arranged symmetrical in the vibrating direction in a magnetic gap 14 of a voice coil 7. The edge members 13a, 13b are arranged symmetrical in the vibration direction in the magnetic gap 14 of the voice coil 7.

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